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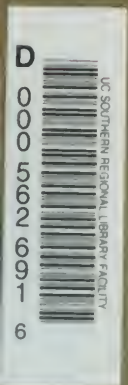
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DISTRIBUTION OF GRADUATE FELLOWSHIPS AND SCHOLARSHIPS  
BETWEEN THE ARTS AND THE SCIENCES

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## DISTRIBUTION OF GRADUATE FELLOWSHIPS AND SCHOLARSHIPS BETWEEN THE ARTS AND THE SCIENCES

DURING a survey of various educational institutions by the Educational Relations Division of the National Research Council, it seemed desirable to ascertain the relative support given to the arts and the sciences in our universities. One indication of this support may be found in the number of fellowships granted in each of these two fields. At the suggestion of Professor C. E. McClung, the Research Information Service requested twelve of our leading universities to furnish information concerning the subject distribution of fellowships and scholarships awarded in the graduate school of arts and sciences or its equivalent during the past five years. Due to a misunderstanding, this five year period was not uniform for all of

The distribution between the arts and the sciences is given in Table II. Harvard has the largest number of fellowships during this period, 538. Chicago follows with 406, Yale has 385, Wisconsin and Johns Hopkins 336 each; the others have less than 300.

TABLE II  
DISTRIBUTION OF FELLOWSHIPS AND SCHOLARSHIPS  
BETWEEN ARTS AND SCIENCES

UNIVERSITY	ARTS	SCIENCES		TOTAL
		PURE	APPLIED	
California .....	77	64	36	177
Chicago .....	201	205	....	406
Columbia .....	138	73	6	217
Cornell .....	110	68	30	208
Harvard .....	385	153	....	538
Illinois .....	148	121	21	290
Johns Hopkins .....	157	179	....	336
Michigan .....	58	73	27	158
Pennsylvania .....	201.5	93.5	2	297
Stanford .....	10	18	1	29
Wisconsin .....	197	88	51	336
Yale .....	210	153	22	385
Totals .....	1,892.5	1,288.5	196	3,377

TABLE I  
DISTRIBUTION OF FELLOWSHIPS AND SCHOLARSHIPS BY YEARS

UNIVERSITY	1916	1917	1918	1919	1920	1921
California .....	41	28	30	35	43	....
Chicago .....	103	66	93	95	69	....
Columbia .....	65	61	14	31	61	....
Cornell .....	41	41	41	41	41	....
Harvard .....	129	76	78	125	130	....
Illinois .....	80	50	50	59	51	....
Johns Hopkins .....	76	72	58	68	62	....
Michigan .....	41	26	23	30	38	....
Pennsylvania .....	71	62.5	46.5	55.5	61.5	....
Stanford .....	2	2	5	10	10	....
Wisconsin .....	65	72	58	86	....	....
Yale .....	82	58	55	94	96	....

the returns and complete data are available only for the four collegiate years 1916, 1917, 1918, and 1919.

The twelve universities listed in Table I reported 3,377 fellowships. This table shows the distribution by years. The halves appearing in this and the following tables are due to the practice of the University of Pennsylvania in sometimes dividing the university fellowships (providing simply for the remission of tuition fees) into halves, in order to aid certain teachers or students who can not carry a sufficient amount of work to enable them to hold a full fellowship.

In the arts Harvard also leads with 385 fellowships; Yale has 210 and Pennsylvania and Chicago tie for third place with 201 each. In the sciences Chicago leads with 205, with Johns Hopkins second, 179, while Yale follows with 175 and Harvard with 153. The order for the applied sciences is: Wisconsin 51, California 36, Cornell 30, Michigan 27, Yale 22, and Illinois 21.

The distribution by individual subjects for the five year period is shown in Table III. A summary of Table III follows:

A.—*Arts*—Architecture, 10; ancient languages, 250; English and modern languages, 615.5; philology, 4; philosophy, 197.5; education, 80; fine arts, 17; manual arts, 5; history, 328; economics, 171.5; home economics, 21; political science, 153; sociology, 40.

B.—*Pure Sciences*—Astronomy, 28; archaeology, 20; biology, 400.5; chemistry, 365; geography, 12; geology, 104; mathematics, 145; physics, 152.5 psychology, 63.5.

TABLE III—Continued  
DISTRIBUTION OF FELLOWSHIPS AND SCHOLARSHIPS BY SUBJECT

	1915-16	1916-17	1917-18	1918-19	1919-20	1920-21	1921-22	Individual Total	Grand Total
Chemistry .....	5	55	53	68	68	82	13		365
Geography .....	....	....	2	2	2	2	3	11	
Physiogeography .....	....	1	....	....	....	....	....	1	
Total .....	....	1	2	2	2	2	3		12
Geology .....	1	19	25	8	24	19	8		104
Mathematics .....	2	31	25	23	29	29	3		142
Physics .....	1	32½	32	19½	27½	35	5		152½
Psychology .....	....	11	12	9	14	15½	2		63½
See also Philosophy and psychology under A. Arts.....									
<b>TOTAL FOR PURE SCIENCES</b> .....	17	242	252	198	281	249½	58		1,288½
<b>C. APPLIED SCIENCES</b>									
Agriculture .....	....	1	1	1	1	2	1	7	
Agricultural bacteriology .....	1	2	2	1	1	....	....	7	
Agricultural chemistry .....	....	1	2	4	2	1	....	10	
Agricultural economics .....	1	1	2	....	3	....	....	7	
Agricultural education .....	....	1	....	....	....	....	....	1	
Agronomy .....	....	3	4	2	....	1	....	10	
Animal husbandry.....	....	3	1	....	....	....	....	4	
Dairy husbandry .....	....	1	1	1	1	....	....	4	
Horticulture .....	....	3	....	....	1	....	....	4	
Soils .....	....	....	1	1	2	....	....	4	
Total .....	2	16	14	10	11	4	1		58
Ceramics .....	....	....	1	....	1	....	....		2
Engineering .....	....	1	1	1	16	8	....	27	
Architectural engineering .....	....	1	....	....	....	....	....	1	
Chemical engineering .....	1	8	4	....	3	3	....	19	
Civil engineering .....	....	5	6	2	3	2	1	19	
Electrical engineering .....	2	1	4	3	3	2	....	15	
Highway engineering .....	....	2	....	....	....	4	....	6	
Hydraulic engineering .....	1	....	....	....	2	....	....	3	
Mechanical engineering .....	....	2	1	....	....	1	....	4	
Mechanical and electrical engineering.....	....	2	2	2	2	2	....	10	
Steam and gas engineering .....	....	1	....	....	....	....	....	1	
Total .....	4	23	18	8	29	22	1		105
Medicine .....	....	1	4	2	2	3	4	16	
Public health .....	....	1	....	....	....	....	....	1	
Research medicine .....	....	....	....	1	1	1	4	7	
Total .....	....	2	4	3	3	4	8		24
Pharmacy .....	1	2	1	1	1	1	....		7
<b>TOTAL IN APPLIED SCIENCES</b> .....	7	43	38	22	45	31	10		196

## SUMMARY

A. Arts .....	1,892½
B. Pure science.....	1,288½
C. Applied science.....	196
<b>TOTAL</b> .....	<b>3,377</b>

lowships, and the interest in graduate work on the part of students as shown by the number of candidates for doctorates. It seems possible that these two measures of interest in graduate work may be related to each other. With this possibility in view Table IV was compiled to show the number of fellowships assigned as compared with the number of doctorates conferred in a given year by each of the twelve

universities. The compilation was necessarily limited to the natural sciences, as no information regarding doctorates conferred in the arts was available to the Research Information Service.

In some of the institutions, it will be noted that there is a close parallelism between the figures, whereas in others there is no apparent relation.

TABLE IV  
COMPARISON OF FELLOWSHIPS AND DOCTORATES IN THE SCIENCES

UNIVERSITY	1916-1917		1917-1918		1918-1919		1919-1920		1920-1921	
	F.	D.	F.	D.	F.	D.	F.	D.	F.	D.
California .....	23	23	16	16	15	16	21	14	25	22
Chicago .....	....	39	49	55	29	28	47	43	43	42
Columbia .....	21	37	24	24	3	11	7	24	21	27
Cornell .....	19	38	19	30	19	21	19	35	21	33
Harvard .....	40	39	21	15	21	14	32	28	39	25
Illinois .....	42	24	25	23	27	15	25	22	23	19
Johns Hopkins .....	37	24	37	7	32	7	39	21	33	21
Michigan .....	26	13	15	8	13	4	22	9	24	7
Pennsylvania .....	28	7	21	10	7	8	23	5	16	5
Stanford .....	....	4	2	....	2	2	4	4	5	5
Wisconsin .....	30	17	26	16	19	9	34	24	....	15
Yale .....	31	25	21	9	31	4	52	23	40	27





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